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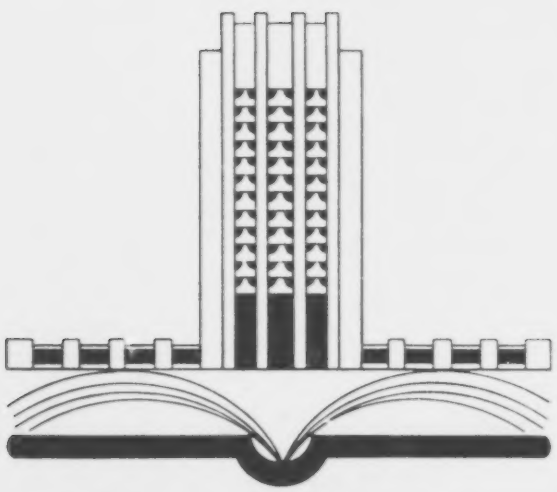

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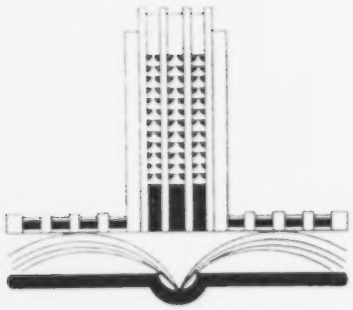

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4. S S2 AND HYLURGOPINUS()RUFIPES
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Protection of elm (Ulmus spp.) groves by surrounding them with multilure-baited sticky traps (European elm bark beetles, Scolytus multistriatus, vector of Dutch elm disease, Ceratocystis ulmi).
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Pseudomonas fluorescens and Ceratocystis ulmi in wych elm (Dutch elm disease, Scolytus laevis, Denmark).
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Pseudomonas syringae as a microbial antagonist of Ceratocystis ulmi in the apoplast of American elm (Ulmus americana, biological control).
Myers, D.F.BMSTA. ; Strobel, G.A. Cambridge : Cambridge University Press. Transactions of the British Mycological Society. June 1983. v. 80 (pt.3). p. 389-394. Includes references. (NAL Call No.: 451 B76).

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Pyrethroid insecticides for control of European elm bark beetle (Coleoptera: Scolytidae).
JEENAI. Pajares, J.A. ; Lanier, G.N. Lanham, Md. : Entomological Society of America. Journal of economic entomology. June 1983. v. 82 (3). p. 873-878. Includes references. (NAL Call No.: DNAL 421 J822).
Commercial formulations of four pyrethroid insecticides, fluvalinate (Mavrik), permethrin (Pounce), cypermethrin (Ammo), and esfenvalerate (Asana), were 222-548 times more toxic to European elm bark beetles, Scolytus multistriatus (Marsham), than was methoxychlor. Compared with methoxychlor, all of the pyrethroids provided superior protection from twig feeding; two products, cypermethrin and esfenvalerate, killed all beetles contacting sample twigs and prevented twig feeding through an 18-wk period of bioassays after spray. The same two compounds applied to infested elm wood killed all beetles before, or shortly after, they emerged; chlorpyrifos also caused 100% mortality of beetles emerging from brood wood, but its action was not as rapid. The pyrethroids tested could increase the effectiveness of spraying elm crowns to prevent Dutch elm disease. They also could be used to eliminate elm bark beetles as they emerge from brood wood or land on treated surfaces baited with attractants. Potency and durability combined with their low risk to birds and mammals give the pyrethroids excellent potential for the control of other tree pest insects.

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Rapid changes in genetic structure of epidemic populations of Ophiostoma ulmi.
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'Regal' elm (Hardy cultivar, disease resistance, Ceratocystis ulmi).
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0277
Relationship of the production of the toxin, cerato-ulmin, to synnemata formation, pathogenicity, mycelial habit, and growth of Ceratocystis ulmi isolates (pathogen of Dutch elm disease in Ulmus).
Takai, S. Ottawa, National Research Council of Canada. Canadian journal of botany. = Journal canadien de botanique. Mar 15, 1980. v. 58 (6). p. 658-662. ill. 25 ref. (NAL Call No.: 470 C16C).

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Resistance mechanisms of elms to Dutch elm disease (Ulmus, genes, Ophiostoma ulmi, phytoalexins, tylosis).
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Santamour, F.S. Jr. Urbana, International Society of Arboriculture. Journal of arboriculture. May 1979. v. 5 (5). p. 110-112. ill. 7 ref. (NAL Call No.: SB436.J6).

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Janutolo, D.B. ; Stipes, R.J. Richmond, Virginia Academy of Science. Virginia journal of science. Fall/Winter 1979. v. 30 (3/4). p. 132-134. ill. 8 ref. (NAL Call No.: 470 W81).

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JOARD. Barger, J.H. ; Cannon, W.N. Jr. Urbana, Ill. : International Society of Arboriculture. Journal of arboriculture. Apr 1987. v. 13 (4). p. 102-104. ill. Includes references. (NAL Call No.: DNAL SB436.J6).

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Response of the European elm bark beetle, Scolytus multistriatus, to host bacterial isolates (Ulmus procera).
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A route from D-galactose to the aggregation pheromone component (-)-alpha-multistriatin (European-elm bark-beetle, Scolytus multistriatus).
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Takai, S. ; Hiratsuka, Y. Ottawa, Ont. : National Research Council of Canada. Canadian journal of botany = Journal canadien de botanique. July 1984. v. 62 (7). p. 1365-1371. ill. Includes references. (NAL Call No.: 470 C16C).

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